

Resource Persons

Eminent experts from various IITs: Madras, Bombay, Delhi, Kharagpur, Kanpur, Roorkee, Guwahati, and IISc Bangalore, ICT Mumbai, IMMT Bhubaneshwar, RGIPT Raebareli and Industry.



Prospective Audience

Faculty members, research scholars, UG and PG students, engineers, corporates and executives from organizations/industries, consultants, and scientists from R&D labs.

Registration Fee

The registration is free of cost.

Mode of Event

Online via Zoom platform.

Online Registration

Participants interested in the workshop should fill up the registration form provided in the link below by 17 March 2021:

<https://forms.gle/5EGenjfhSE9tfNcL8>

The Zoom link for the talks will be shared to the registered participants. E-certificate shall be provided to all the participants who opt for it in the registration form provided they attend majority of the lectures.

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Virtual Workshop on

Future of Chemical Engineering

Under
TEQIP-III

19th March - 21st March 2021



Organized by

Department of Chemical Engineering

INDIAN INSTITUTE OF TECHNOLOGY
(INDIAN SCHOOL OF MINES)
DHANBAD, JHARKHAND, INDIA

IIT (ISM) Dhanbad



Indian Institute of Technology (Indian School of Mines) Dhanbad is one of the most reputed technological institutions of national importance. Since its inception in 1926, the institute has had a unitary character and a pan-India flavor. The Institute has 18 academic departments offering a wide range of courses in Engineering, Science, Management, Humanities and Social Sciences at UG and PG levels, besides having an intensive PhD programme. The institute has forged strong global linkages with institutions of repute and its resource base has undergone a phenomenal change with new and updated facilities, research laboratories, digital library and an ultra modern sophisticated central research facilities. You may visit the website at: www.iitism.ac.in for more information.

Department of Chemical Engineering



Established in the year 2011, the Department conducts academic and research programmes leading to B.Tech, M.Tech and PhD degrees assisted with DST-FIST grant. Situated in the coal hub of the country, the Department focusses on coal processing, coal process engineering and conversion technologies for producing value-added chemicals, fuels and other products. These areas are synergised with downstream gas and petroleum processing and process engineering research. The energy blend of gas-liquid-solid sources and the conversion of these sources with and without blending into useable products, will be the unique contribution of the Department. Please visit our site to know more about the Department:

www.iitism.ac.in/index.php/Departments/dept_chem

About the Workshop

Chemical Engineering discipline is witnessing a significant but very rapid transformation with ever-changing needs of mankind, depleting conventional resources and growing environmental concerns. This is also evident from the new areas that this discipline is embracing over the last few years. There has been a paradigm shift from the unit operations to transport phenomena-based engineering with its strengthening by insights in to molecular and nano sciences and engineering, biosciences and engineering, AI and systems engineering, new and cleaner energy sources and materials, process intensification, carbon-neutral chemicals and energy production pathways in chemical engineering education, research and chemical industry. The market and environment driven demands will see application of chemical engineering into such areas as food production and agriculture, bio-based active molecules and agents production, recycle and reuse of waste materials, lighter weight but more durable materials, minimization of water usage and recycling and reuse of wastewaters for various purposes. Equipped with advanced computational modeling, data analytics, new catalysts and materials, Chemical Engineering is set to provide a dependable and robust platform for meeting the challenges of increasing human population and its aspiration for a better, more equitable and progressive society. This virtual workshop is intended to bring awareness among the students and researchers regarding the diversity and reach of Chemical Engineering, the current and future needs to prepare them to tackle the complex problems facing the chemical process industries and serve the modern society much more efficiently. It addresses some important questions such as the curricular and research framework for the next 30 years, the methodology and the expertise required for the industries and specialized areas. The workshop will provide addresses from doyens and young researchers of Chemical Engineering. It will also provide a special address on NEP and its impact on future engineering education, research and industry.

List of speakers

For more details about the speakers, the title and time of their talks, click [detailed schedule](#).



Inaugural address by
Prof. M M Sharma
ICT Mumbai



Special address by
Prof. Prem Vrat
IIT Delhi



Valedictory address by
Prof. D V Khakhar
IIT Bombay



Prof. A B Pandit
ICT Mumbai



Prof. S Basu
IMMT Bhubaneswar



Prof. A S K Sinha
RGIPT, Raebareli



Prof. S De
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Prof. Shantanu Roy
IIT Delhi



Shri D P Misra
Former President, IICHe
Ex-Dy Managing Director, Jacobs



Prof. Tamal Banerjee
IIT Guwahati